

Read Me First

hp StorageWorks Director Element Manager Licensing Instructions

Product Version: FW v06.xx/HAFM SW v08.02.00

This document describes how to install the feature key for an Element Manager on a director product. It describes the following topics:

- [Element Manager Feature Keys](#), page 2
- [Grace Period Notifications](#), page 3
- [Accessing the Element Manager via HAFM](#), page 6

Element Manager Feature Keys

Feature keys verify ownership of the license for the Element Manager and optional features that can be purchased for the director. The feature key, which is encoded with a director's serial number, can only be configured on the director to which it is assigned.

When you purchase additional features, you will obtain a feature key. The feature keys that you are currently using are included in this key. Here are some important notes about the Element Manager feature key introduced with this release:

- The Element Manager Enablement Certificate is included in the Documentation kit.
- Follow instructions on the enablement certificate to obtain your Element Manager feature key.
- Install the feature key on your director using Configure Feature Key dialog box. For more information on installing a feature key, see [“Enabling a Feature Key”](#) on page 6.

If you do not install the Element Manager feature key, HAFM v08.xx advises you that you do not have a license to manage the director. You have a 30-day grace period to obtain and install your feature key. For more information on the grace period, see [“Grace Period Notifications”](#) on page 3.

For more information on obtaining and installing feature keys, see *hp StorageWorks HA-Fabric Manager User Guide*.

Grace Period Notifications

The default grace period is 30 days. The grace period is associated with each switch and affects any Element Manager connected to that switch. If the feature key does not support the Element Manager, access to the Element Manager is not restricted. However, messages that display in the Element Manager indicate the feature is not valid. The indicators severity depends on when the Element Manager was originally started. The start date is defined as the first attempt to invoke the Element Manager on a new switch that uses firmware v06.0 or higher. The visual indications are described below:

When you start the Element Manager, the installed features are checked for the Element Manager feature. If the feature is not installed in the key, the Feature Key Instruction dialog box is displayed ([Figure 1](#)).

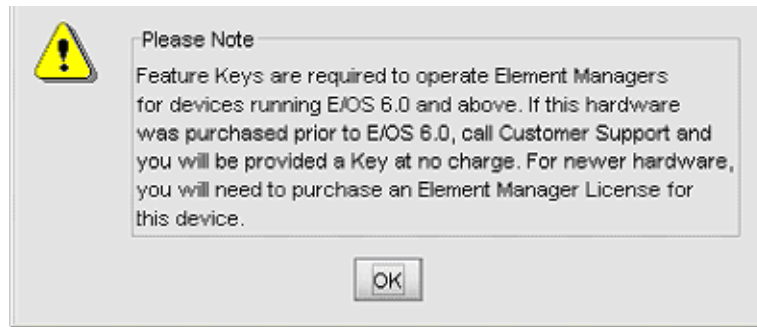


Figure 1: Feature Key Instruction dialog box

Note: The reference to "E/OS 6.0" means "firmware v06.00.00."

When you click **OK**, the Element Manager window is displayed ([Figure 2](#) on page 4).

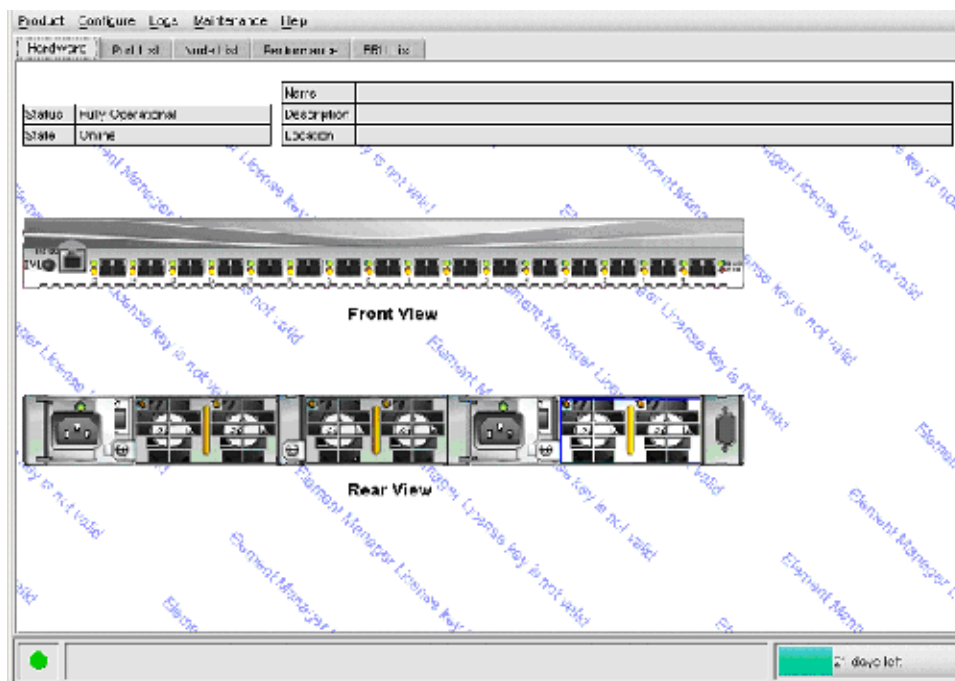


Figure 2: Watermark and progress bar

If you choose to run the Element Manager without a feature key, watermark text displays on all tabbed panels of the Element Manager.

A grace period progress bar is displayed on the right side of the status bar, at the bottom of the Element Manager window. As the grace period progresses, the color of the progress bar changes from green to yellow to orange. The number of days remaining in the grace period displays on the bar. Moving the cursor over the progress bar displays the following: Double-click to view Element Manager feature key update instructions. Double-click on the progress bar to display the Feature Key Instruction dialog box ([Figure 1](#) on page 3). When the grace period expires, the progress bar turns red and displays the following: Feature Key Required ([Figure 3](#) on page 5).

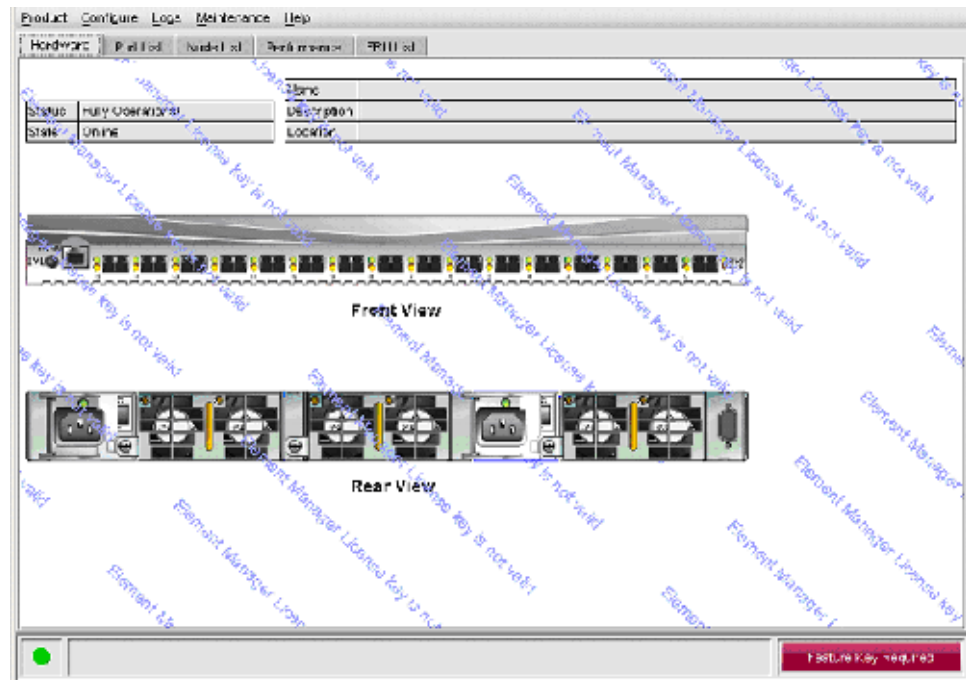


Figure 3: Indicators after grace period expires

The watermark text is placed on top of images and other Element Manager display components. The Feature Key Instruction dialog box ([Figure 1](#) on page 3) is displayed automatically every 5 minutes. Only one copy of the dialog box displays for each Element Manager instance. Multiple Element Manager instances without valid feature keys may produce another instance of the Feature Key Instruction dialog box. The 5-minute timer for the dialog box is reset when you click **OK**.

Accessing the Element Manager via HAFM

When you access the Element Manager from HAFM, the Element Manager normally displays without prompting. However, with firmware v06.0 installed on a new switch, a check is made for the installation of a Product Feature Enablement (PFE) key containing the Element Manager feature. If the Element Manager feature is not installed, the Feature Key Instruction dialog box is displayed ([Figure 1](#) on page 3). The Feature Key Instruction dialog box contains brief instructions for obtaining an Element Manager feature key. This dialog box is displayed periodically after expiration of a grace period (see “[Grace Period Notifications](#)” on page 3).

Obtaining a License Key for HAFM

Before you can use HAFM v08.xx, you must obtain a license key when upgrading software on an existing HAFM appliance to HAFM v08.xx or when replacing a notebook server with an HAFM appliance running HAFM 08.xx.

The HAFM v08.xx software kit provides a software serial number on the CD jewel case and a software entitlement request certificate for HAFM. The certificate contains instructions to retrieve the license key from the web site.

For complete instructions, refer to the *HP StorageWorks HA-Fabric Manager User Guide*.

Enabling a Feature Key

To enable a feature key in the switch or director Element Manager:

1. Choose **Configure > Features**. The Configure Feature Key dialog box is displayed ([Figure 4](#)).

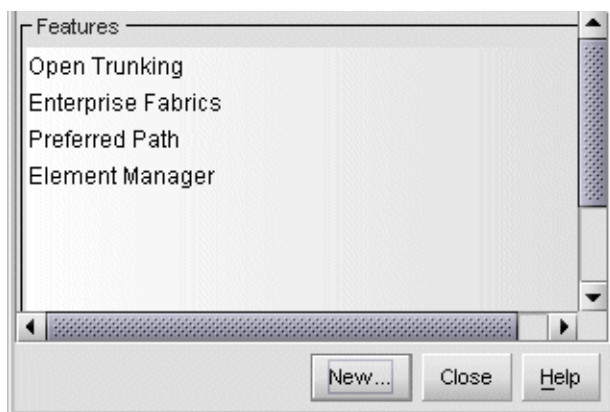


Figure 4: Configure Feature Key dialog box

2. Click **New** to add a new feature key. The New Feature Key dialog box is displayed ([Figure 5](#)).

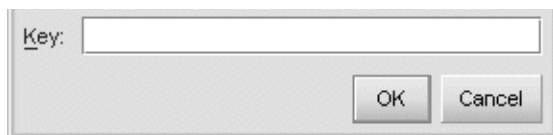


Figure 5: New Feature Key dialog box

3. Enter the director feature key in the **Key** field.
4. Click **OK**. The Enable Feature key dialog box is displayed ([Figure 6](#)).

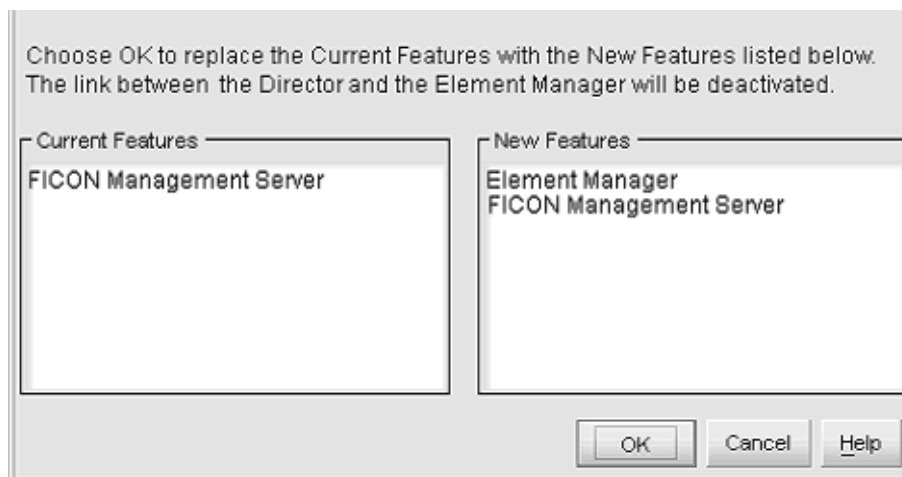


Figure 6: Enable Feature Key dialog box

5. Click **OK**.

The new feature(s) are installed, the dialog box closes, and the link between the director and the Element Manager is dropped. The Element Manager remains displayed, but there is a short delay until the switch reactivates the link. Normal link-loss symptoms are noticed, such as the hardware view showing only an empty chassis. If features are being removed from the current **Features** list, a warning dialog box is displayed ([Figure 7](#)).

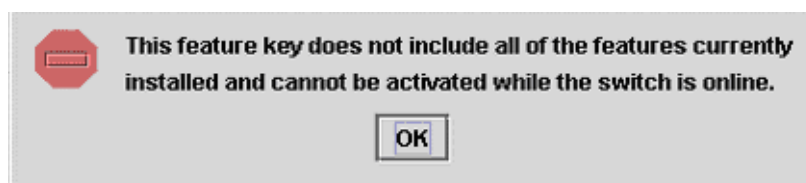


Figure 7: Offline Warning dialog box

6. Click **OK** to return you to the Configure Feature Key dialog box. You must set the switch offline before removing a feature using the selected feature key.